

JP56147364 - English Language Abstract (WPINDEX)

L24 ANSWER 16 OF 26 WPINDEX (C) 2003 THOMSON DERWENT

AN 1981-95807D [52] WPINDEX

TI Amalgamated zinc powder prodn. - by adding surfactant and mercury in an aq. bath with applied oscillation and bath agitation.

DC A97 E17 L03 M22 P53

PA (MATU) MATSUSHITA ELEC IND CO LTD

PI.B JP 56147364 A 19811116 (198152)* 3p

PRAI JP 1980-50589 19800416

PNC 1

CYC 1

AB JP 56147364 A UPAB: 19930915

Amalgamated Zn powder is made by prepg. a bath of hot water including surfactant and contg. Zn powder, adding metal Hg into the hot water

with

applying oscillation (e.g. by an electro-mechanical transducer to the

Zn

powder and agitating the hot water.

The amt. of the surfactant is 0.5-7wt.% to the amt. of the hot water.

The surfactant is pref. of nonion gp. such as of **fatty acid** monoglyceride, polyoxyethylene alkylamine, polyoxyethylene alkyl ester, sorbitan **fatty acid** ester, or polyoxyethylene alkyl phenol ether. The temp. of the hot water is pref. below 80 deg.C.

The powder is pref. used for a **Zn electrode** of an alkaline cell. The amalgam formation is to prevent corrosion of the **Zn electrode** by alkaline electrolyte soln. Amalgam formation is efficiently carried out

by

adding surfactant, and by applying oscillation with agitating.

FA AB

FS CPI GMPI